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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,546	10/731,546 12/09/2003		Alexander B. Morgan	62227A	4549
109	7590	04/19/2005		EXAMINER	
THE DOW	CHEMI	ICAL COMPANY	TRAN, THAO T		
INTELLEC	TUAL PR	ROPERTY SECTIO	N		
P. O. BOX 1967				ART UNIT	PAPER NUMBER
MIDLAND	MIDLAND, MI 48641-1967			1711	
				DATE MAILED: 04/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/731,546	MORGAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Thao T. Tran	1711					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 27 December 2004.							
· _ · _							
3) Since this application is in condition for allower	,—						
Disposition of Claims							
4) ☐ Claim(s) 1 and 3-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1, 3-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10)☐ The drawing(s) filed on is/are: a)☐ acc	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

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DETAILED ACTION

Response to Amendment

- 1. This is in response to the Amendments filed 12/27/2004.
- 2. Claims 1 and 3-20 are currently pending in this application. Claim 2 has been canceled. Claims 17-20 have been newly added.

Claim Rejections - 35 USC § 112

3. In view of the prior Office action of 10/01/2004, the rejection of claims 2-16, under 35 U.S.C. 112, second paragraph, has been withdrawn due to the amendments made thereto.

Claim Rejections - 35 USC § 102

4. In view of the prior Office action of 10/01/2004, the rejection of claims 1-3 and 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Asai et al. (US Pat. 4,639,379), has been withdrawn due to the amendments made thereto.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asai et al. (US Pat. 4,639,379) in view of Jeong et al. (US Pat. 6,476,105).

In regards to claims 1-3, Asai teaches an article, comprising a polymeric substrate containing a flame retardant; wherein the surface of the substrate is subjected to a plasma treatment to form a plasma-polymerized surface film containing an organosilicon compound. The polymeric substrate made of polycarbonates, styrene-acrylonitrile-butadiene copolymer, or a blend thereof (see col. 2, ln. 18-64; col. 3, ln. 3).

In regards to claims 5-6, Asai further teaches the substrate is subjected to a surface pretreatment by plasma in the presence of aniline (nitrogen-containing) or nitrogen to form a crosslinked layer (see col. 7, ln. 21-26; col. 10, ln. 6-7).

In regards to claims 7 and 17-18, although Asai teaches the substrate subjected to a plasma treatment to form a plasma-polymerized surface film containing an organosilicon compound after a surface pretreatment by plasma not including an organosilicon compound, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to employ an organosilicon compound in the pretreatment would have improved the adhesion of the coating containing an organosilicon compound to the substrate.

In regards to claims 4 and 8-15, Asai does not teach a specific type of flame retardant.

Jeong teaches a resin composition comprising a mixture of ABS and polycarbonate and phosphorous-containing flame retardant, such as triphenyl phosphate (see paragraph bridging col. 2-3; col. 3, ln. 62-67). Jeong further teaches the flame-retardants to be 0.5-3 parts by weight (see col. 4, ln. 2).

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Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have used the flame retardant, as taught by Jeong, in the invention of Asai. This is because Jeong teaches that using phosphorous-containing flame-retardants would have enhanced coating adhesion, and at this weight range would have optimized coating adhesion.

In regards to claim 16, the Asai combination does not teach the use of the composite as an enclosure for an electronic device as recited in the instant claim. However, it has been known within the skill in the art that laminates comprising a thermoplastic resin substrate with an abrasive and flame resistant coating have been used as covering of these devices. And it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have used the composite taught by the Asai combination as a protective covering of these device, due to its high weatherability and abrasive and flame resistance.

In regards to claims 19-20, since the Asai combination teaches the same chemical composition of the polymeric composite, the polymeric composite of the references would inherently have the same properties such as flammability test.

Response to Arguments

7. Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

Note: In response to applicant's argument that there is no suggestion to combine the references of Asai and Jeong, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where

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there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Asai teaches adding flame retardant into a polymeric composition. Jeong is employed to illustrate that the use of phosphate flame retardants in amounts of 0.5-3 parts by weight has been taught in the prior art of making polymeric compositions to enhance coating adhesion of the composite. Thus, Jeong is used to remedy Asai.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 571-272-1080. The

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examiner can normally be reached on Monday-Friday, from 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

tt April 15, 2005

THAOT.TRAN
PATENT EXAMINER